

Website design and outreach: “Fish swimming performance and selective passage at barriers”



Project Title	Website design and outreach: “Fish swimming performance and selective passage at barriers”
Project Summary	Providing passage at riverine barriers, while obstructing movements of invasive species is a key and pressing challenge in conservation biology. We seek to improve outreach that highlights our work on aquatic locomotion, and efforts to overcome this challenge.
Country	United States
Agency	Geological Survey
DoS Office	N/A
Post	N/A
Section	N/A
Number of Interns	1

Project Description

We work at sites around the globe, with the unique and massive flume facilities of the S.O. Conte Anadromous Fish Research Center serving as a flagship that drives research questions and study designs. The work ranges from the fundamentals of locomotion (how different species use their bodies, fins, etc. to produce thrust to propel themselves through water, effects of flow velocity and turbulence, etc.) to direct application of principles to promote passage of desirable native species (in North America and Europe these include salmon, river herring, eels, etc.). In many places, however, invasive species threaten waters that are protected by barriers: we seek ways of coupling biology of native and invasive species with hydraulic designs to promote passage of natives while obstructing invasives. The work generates compelling imagery, but we lack time and expertise to compile this information into webpages etc. that would assist our outreach and promote public understanding of our work. In addition to outreach we have need for coding support, as we actively modify and improve our instrumentation and video processing techniques.

Desired Skills Interests

Additional Information

None

Language Requirements

Language	Speaking Proficiency	Reading Proficiency	Importance
French	Elementary proficiency	Elementary proficiency	Nice to Have
Spanish	Elementary proficiency	Elementary proficiency	Nice to Have
Portuguese	Limited working proficiency	Limited working proficiency	Nice to Have
German	Limited working proficiency	Limited working proficiency	Nice to Have
Chinese-Mandarin	Limited working proficiency	Limited working proficiency	Nice to Have